

REMARKS

Claims 1-6 are all the claims pending in the present application. Applicants thank the Examiner for indicating that claim 2 contains allowable subject matter and would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 1 and 3-6 are now rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over a new reference Ganapathy (U.S. Patent No. 6,832,306).

Ganapathy is directed to a method and apparatus for a unified RISC/DSP pipeline controller to control the execution of both reduced instruction set computer (RISC) control instructions and digital signal processing (DSP) instructions for a signal processor. The unified RISC/DSP pipeline controller is coupled to a program memory, a RISC control unit, and at least one signal processing unit. The program memory stores both DSP and RISC control instructions and the RISC control-unit controls the flow of operands and results between the signal processing unit and a data memory that stores data. The signal processing unit executes the DSP instruction. The unified RISC/DSP pipeline controller generates DSP control signals to control the execution of the DSP instruction by the signal processing unit and RISC control signals to control the execution of the RISC control instruction by the RISC control unit.

With respect to independent claim 1, Applicant submit that Ganapathy does not disclose or suggest at least an arithmetic logical unit comprising, inter alia, “a plurality of control inputs coupled between said predefined plurality of basic operators and a program controller,” as recited in claim 1. To satisfy the above-quoted feature of claim 1, the Examiner simply generally cites Fig. 5b and col. 10, line 62 to col. 11, line 24 of Ganapathy. However, nowhere does the Examiner specifically identify what he believes corresponds to the claimed plurality of control

inputs, or what he believes corresponds to the claimed plurality of basic operators. The Examiner alleges that the unified RISC/DSP pipeline controller 304 in Fig. 6J corresponds to the claimed program controller. However, there is clearly no disclosure or suggestion of a plurality of control inputs coupled between said predefined plurality of basic operators and the program controller, as the Examiner has not identified what he believes corresponds to the plurality of control inputs and plurality of basic operators. Therefore, at least based on the foregoing, Applicant submit that Ganapathy does not anticipate claim 1.

Applicant submit that dependent claims 3-5 are patentable at least based on their respective dependencies from independent claim 1.

With respect to dependent claim 3, the Examiner acknowledges that Ganapathy does not explicitly disclose the features of claim 3, however the Examiner believes that the features of claim 3 are obvious in view of Ganapathy. Applicant submit that even if, *arguendo*, Ganapathy discloses the use of gateways of communication systems to provide improved voice and data communications over packetized network, there is no specific disclosure or suggestion of the dedicated system being a digital front end system of any digital subscriber line system. The Examiner is obviously utilizing impermissible hindsight reasoning in determining that the specific features of claim 3 are satisfied by Ganapathy. Applicant submit that dependent claim 5 is patentable at least based on reasons similar to those set forth in claim 3.

Further, with respect to dependent claim 4, the Examiner believes that the features of claim 4 are satisfied simply because Ganapathy teaches performing data/voice processing. However, again, the Examiner is utilizing impermissible hindsight reasoning as nowhere does Ganapathy disclose or suggest the specific features set forth in claim 4.

Applicant submit that independent claim 6 is patentable at least based on reasons similar to those set forth above with respect to claim 1.

Therefore, at least based on the foregoing, Applicant submit that Ganapathy does not anticipate claims 1 and 3-6.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

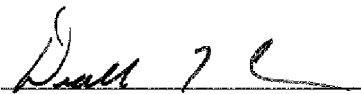
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